COPY

From the INTERNATIONAL BUREAU

1	D		٦į	П	Γ
1	L	T	,		

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:	
20.	

MIYAGAWA, Teiji 6th Floor, Fuji Bldg 19, Aizumi-cho Shinjuku-ku, Tokyo 1600005 JAPON

Date of mailing (day/month/year) 02 March 2006 (02.03.2006)					
Applicant's or agent's file reference 04-804EB-PCT	IMPORTANT NOTIFICATION				
International application No. PCT/JP2004/004403	International filing date (day/month/year) 29 March 2004 (29.03.2004)				
Applicant EBARA COR	PORATION et al				
1. Transmittal of the translation to the applicant.					
The International Bureau transmits herewith a copy of the patentability (Chapter I).	he English translation of the international preliminary report on				
The International Bureau transmits herewith a copy of the patentability (Chapter II).	ne English translation of the international preliminary report on				
2. Transmittal of the copy of the translation to the designated or	elected Offices.				
The International Bureau notifies the applicant that copies of that Offices requiring such translation:	The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:				
None	· ·				
The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:					
AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
3. Reminder regarding translation into (one of) the official langua	age(s) of the elected Office(s).				
The applicant is reminded that, where a translation of the internat must contain a translation of any annexes to the international prelim	ional application must be furnished to an elected Office, that translation ninary report on patentability (Chapter II).				
It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.					

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 338 90 90

. PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 04-804EB-PCT	FOR FURTHER ACTION	See item 4 below Priority date (day/month/year) 31 March 2003 (31.03.2003)			
International application No. PCT/JP2004/004403	International filing date (day/month/year) 29 March 2004 (29.03.2004)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant EBARA CORPORATION	·				

	1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
	2.	This REPORT consists of a total	of 4 sheets, including this cover sheet.				
		In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
	3.	This report contains indications relating to the following items:					
	•	Box No. I	Basis of the report				
		Box No. II	Priority				
		Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
		Box No. IV	Lack of unity of invention				
		Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
		Box No. VI	Certain documents cited				
		Box No. VII	Certain defects in the international application				
		Box No. VIII	Certain observations on the international application				
	4.	The International Bureau will co not, except where the applicant n date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				
_							
			Date of issuance of this report				

Authorized officer

Telephone No. +41 22 338 90 90

Yoshiko Kuwahara

Facsimile No. +41 22 740 14 35 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	.TTY	13/1 ₁₀			
То:	-		PCT PCT POTE TO THE PCT		
		WF INTERNAT	RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY		
			(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)			
Applicant's or agent's file reference		FOR FURTHER A	ACTION		
04-804EB-PCT		-	See paragraph 2 below		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/JP2004/004403	29.03.2004		31.03.2003		
Applicant EBARA CORPORATION					
This opinion contains indications rela	ting to the following items	z·			
		••			
Box No. I Basis of the	opinion				
Box No. II Priority			ive step and industrial applicability		
		gard to novelly, livend	we step and measural approaching		
Day No. V Reasoned st	y of invention atement under Rule 43 <i>bis</i>	.1(a)(i) with regard to r	novelty, inventive step or industrial		
	r, citations and explanation	ns supporting such state	enent		
	ects in the international ap	nlication			
	ervations on the internation				
Box No. VIII Certain obse	avations on the internation	nat application			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form	PCT/ISA/220.				
Name and mailing address of the ISA/JP		Authorized officer			
•					
Facsimile No.	•	Telephone No.			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/004403

Bo	x No. I	Basis of this opinion
1.	With filed	regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.	With inve	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
	_	Community to the control of the cont
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
		•

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/004403

Bo				porting such statement	
1.	Statement				
	Novelty (N)	Clai	ims _	1-5	_ YES
		Clai	ms _		_ NO
	Inventive step (IS) Clai	ims	3	_ YES
		Clai	_	1, 2, 4, 5	NO
	· Industrial applicat	oility (IA) Clai	ms	1-5	_ YES
		Clai			_ NO
2.	Citations and explana	tions:			
	Document 1:			A (Mitsubishi Heavy Industries, Ltd.) 8 October 2002, 7; Figure 1 (Family: none)	
	Document 2:	JP 51-90163	A ((Sumitomo Chemical Co., Ltd.) 7 August 1976, Claims R 2300047 A	& DE
	Document 3:	Document 3: JP 1-207187 A (Kurita Water Industries Ltd.) 21 August 1989, Page 2, upper left column, lines 16 to 20; page 2, lower left column, lines 4 to 7 (Family: none)			
	Document 5:	JP 2001-795 JP 4-341388	A (A (Toshiba Corp.) 27 March 2001, Claims (Family: non (Shimizu Corp.) 27 November 1992, Claims (Family: nourita Water Industries, Ltd.) 6 January 1999, Claims; co	one)

The inventions of claims 1, 2, 4 and 5 lack an inventive step.

1, lines 22 to 38 (Family: none)

Document 1 describes performing methane fermentation after an ozone treatment of organic waste such as livestock excrement, and this examination finds that the sulfur compounds contained in that organic waste are oxidized to molecular sulfur by the ozone treatment.

In addition, it is obvious to persons skilled in the art that ozone is harmful to microorganism such as methanogenic bacteria, etc. Therefore, this examination finds that persons skilled in the art can easily conceive of controlling the amount of ozone added when performing methane fermentation subsequent to ozone treatment so that the ozone will not flow into the methane fermentation tank.

Furthermore, this examination finds that establishing a means of measuring the amount of ozone that flows into the methane fermentation tank in such a process is simply a matter to be performed by persons skilled in the art as needed.

The invention of document 3 involves an inventive step.

The above documents neither describe nor suggest controlling the amount of oxidizing agent that is added by using as an indicator the hydrogen sulfide concentration in biogas that is generated in an aerobic treatment process step.